
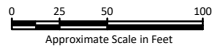
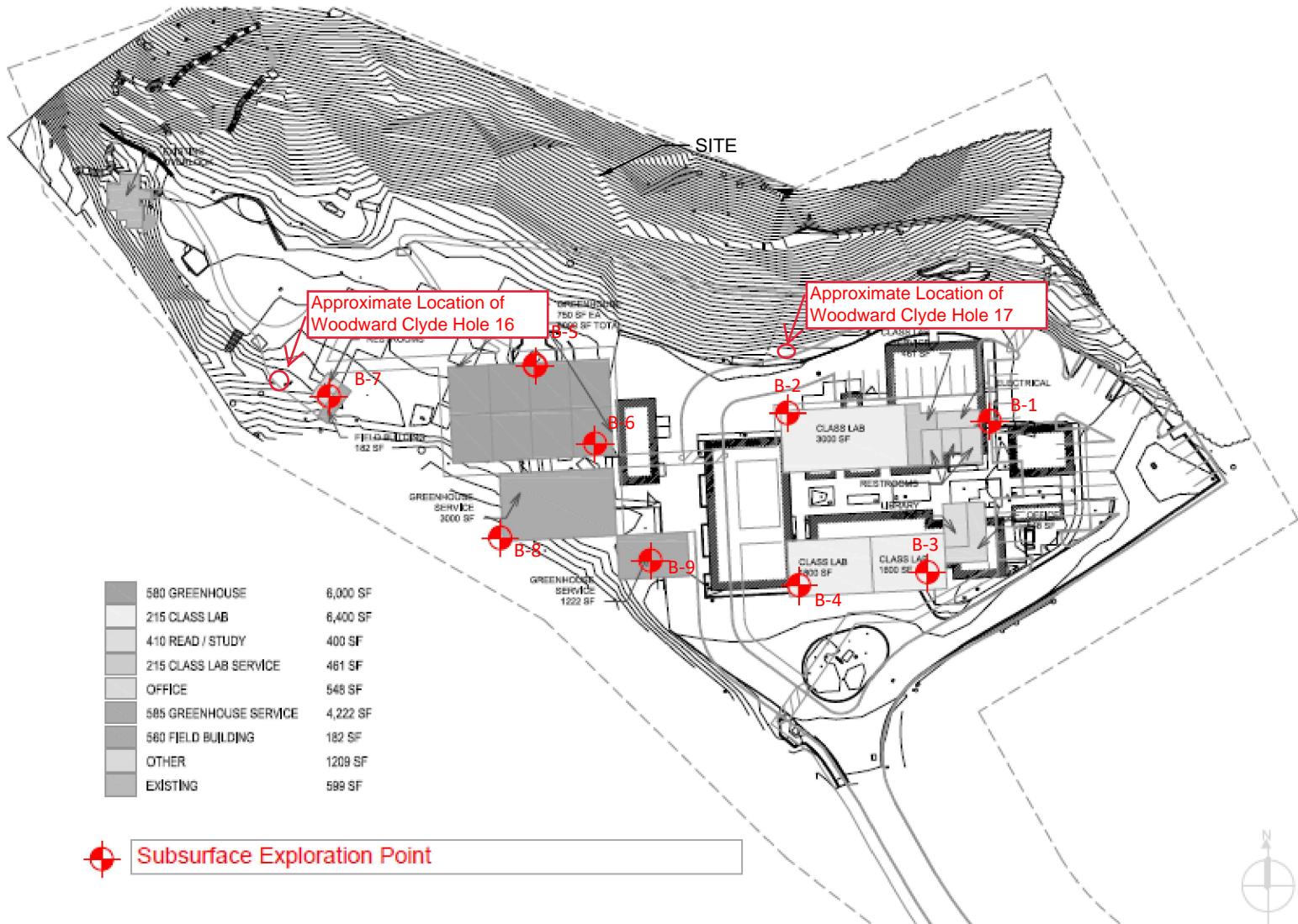
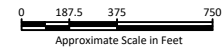
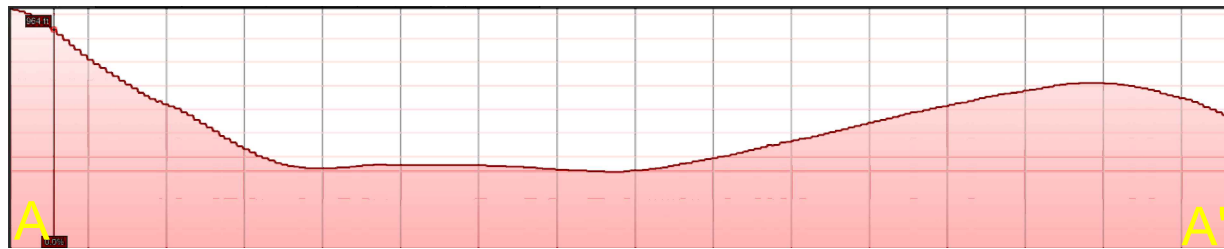
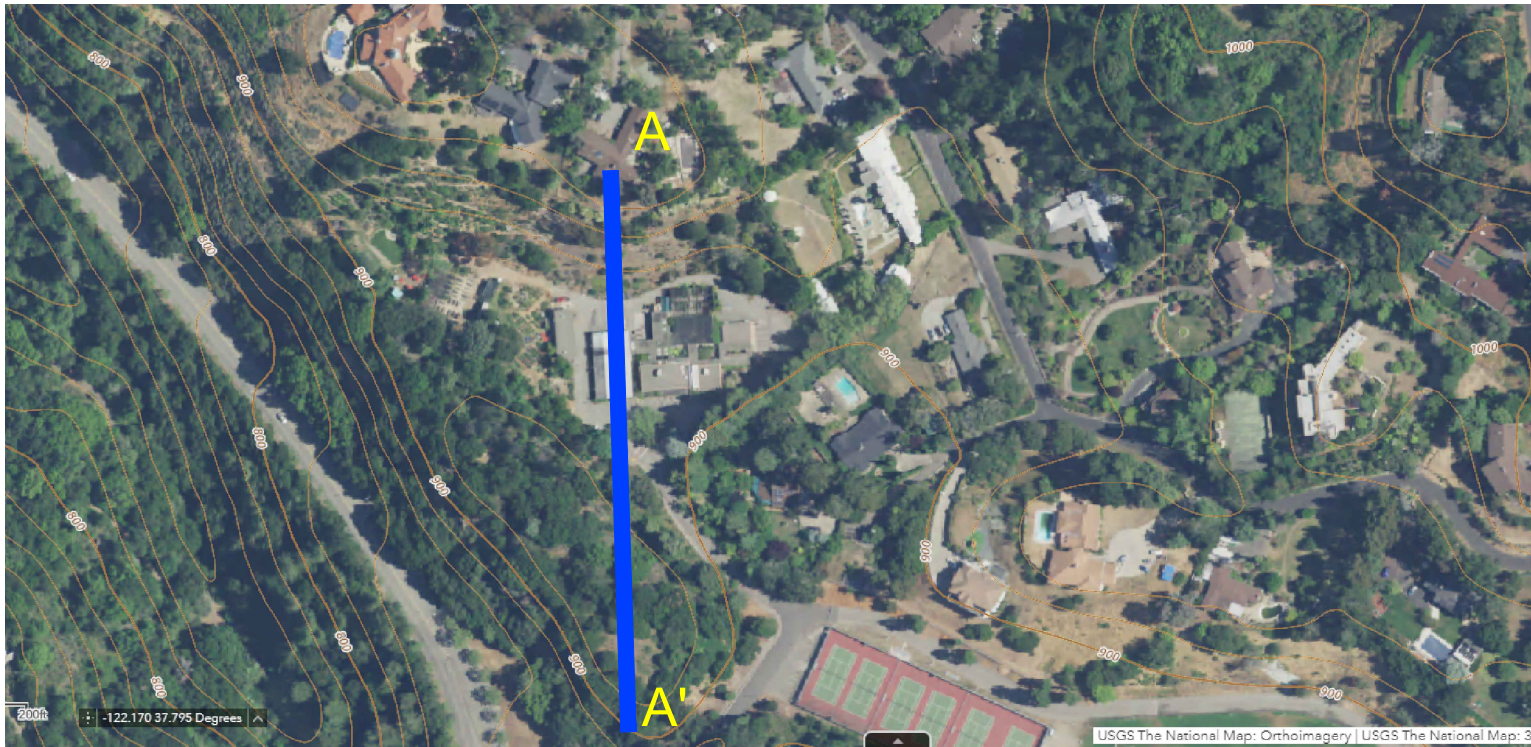



<p>SAFETY FIRST</p>	<p>CLIENT: Peralta Community College District</p>	<p>SITE LOCATION</p>
	<p>PROJECT: MERRITT COLLEGE HORTICULTURE</p> <p>PROJECT NUMBER: 0034.011.0001</p>	



Source: IDA Structural Engineers

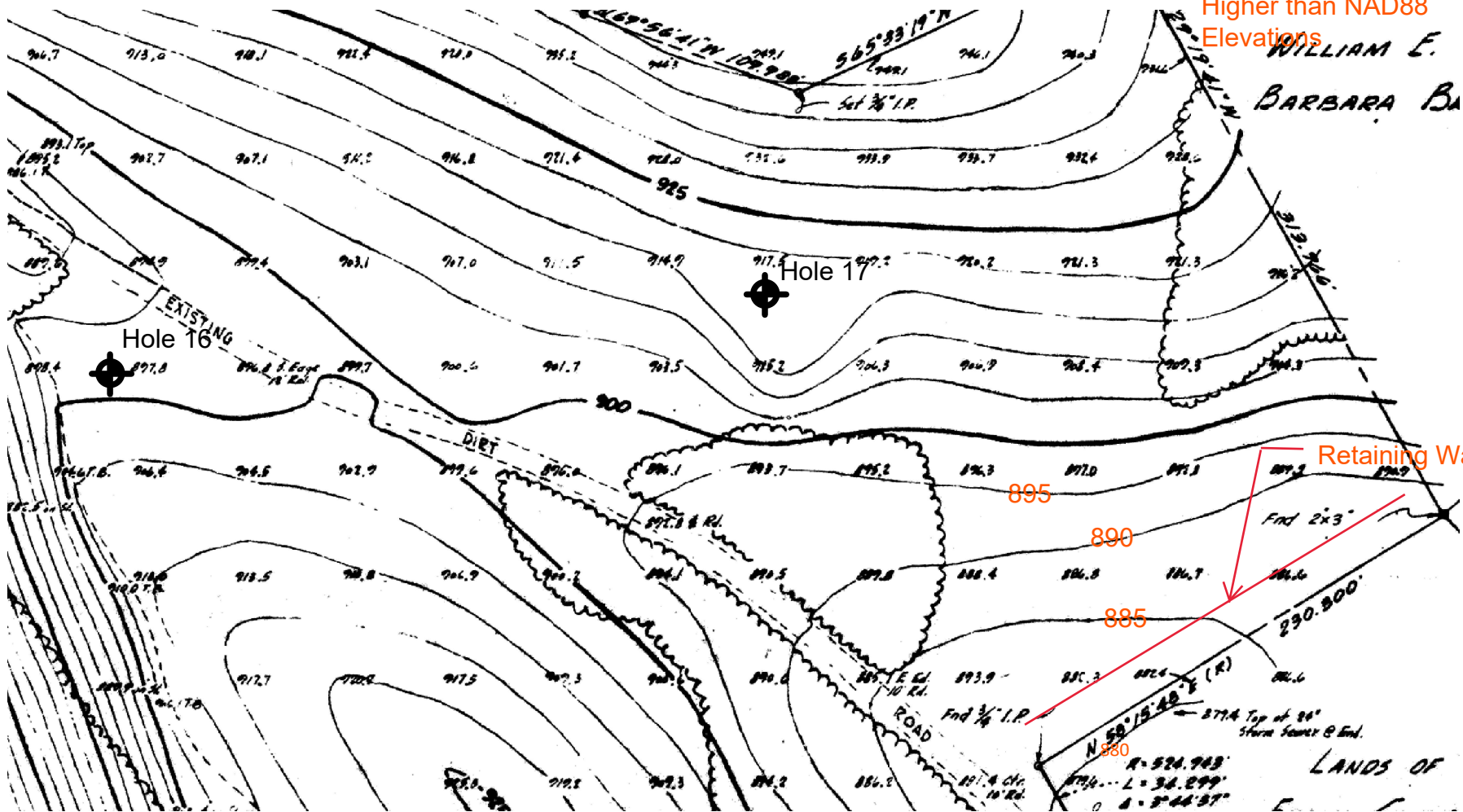
<p>SAFETY FIRST</p>	<p>CLIENT: PERALTA COMMUNITY COLLEGE DISTR</p>	<p>BORING LOCATIONS</p>
	<p>PROJECT: MERRITT COLLEGE HORTICULTURE</p>	
	<p>PROJECT NUMBER: 0034.011.0001</p>	<p>Figure 2</p>



<p>SAFETY FIRST</p>	<p>CLIENT: PERALTA COMMUNITY COLLEGE DISTR</p>	<p>Regional Topography Map</p>
	<p>PROJECT: MERRITT COLLEGE HORTICULTURE</p> <p>PROJECT NUMBER: 0034.011.0001</p>	

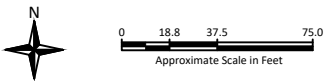
Elevations are 5.7 feet
Higher than NAD88
Elevations

WILLIAM E.
BARBARA BA

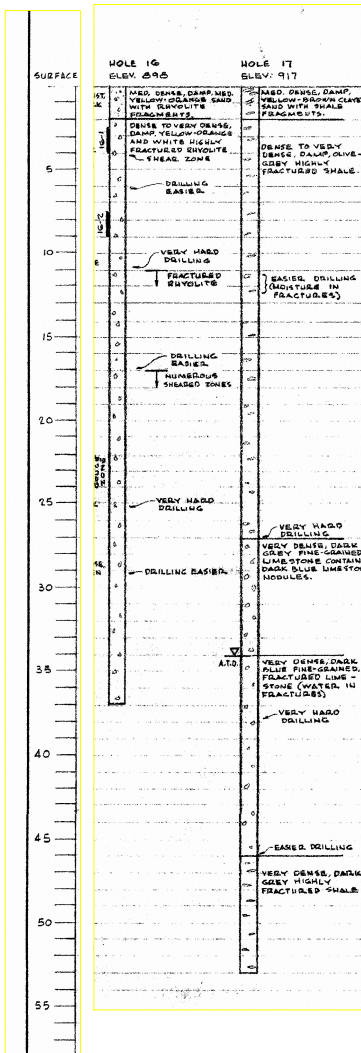


Source: Frahm, Mayke & Elder, September 1961

Hole 16
Woodward Clyde Borings



	CLIENT:	PRE-DEVELOPMENT TOPOGRAPHY
	PERALTA COMMUNITY COLLEGE DISTR	
	PROJECT:	
	MERRITT COLLEGE HORTICULTURE	
	PROJECT NUMBER:	
		0034.011.0001



SAMPLE 16-1

50 BLOWS/FT.

WC - 14

DO - 95

UN - 1310

SAMPLE 16-2


53 BLOWS/FT.

WC - 29

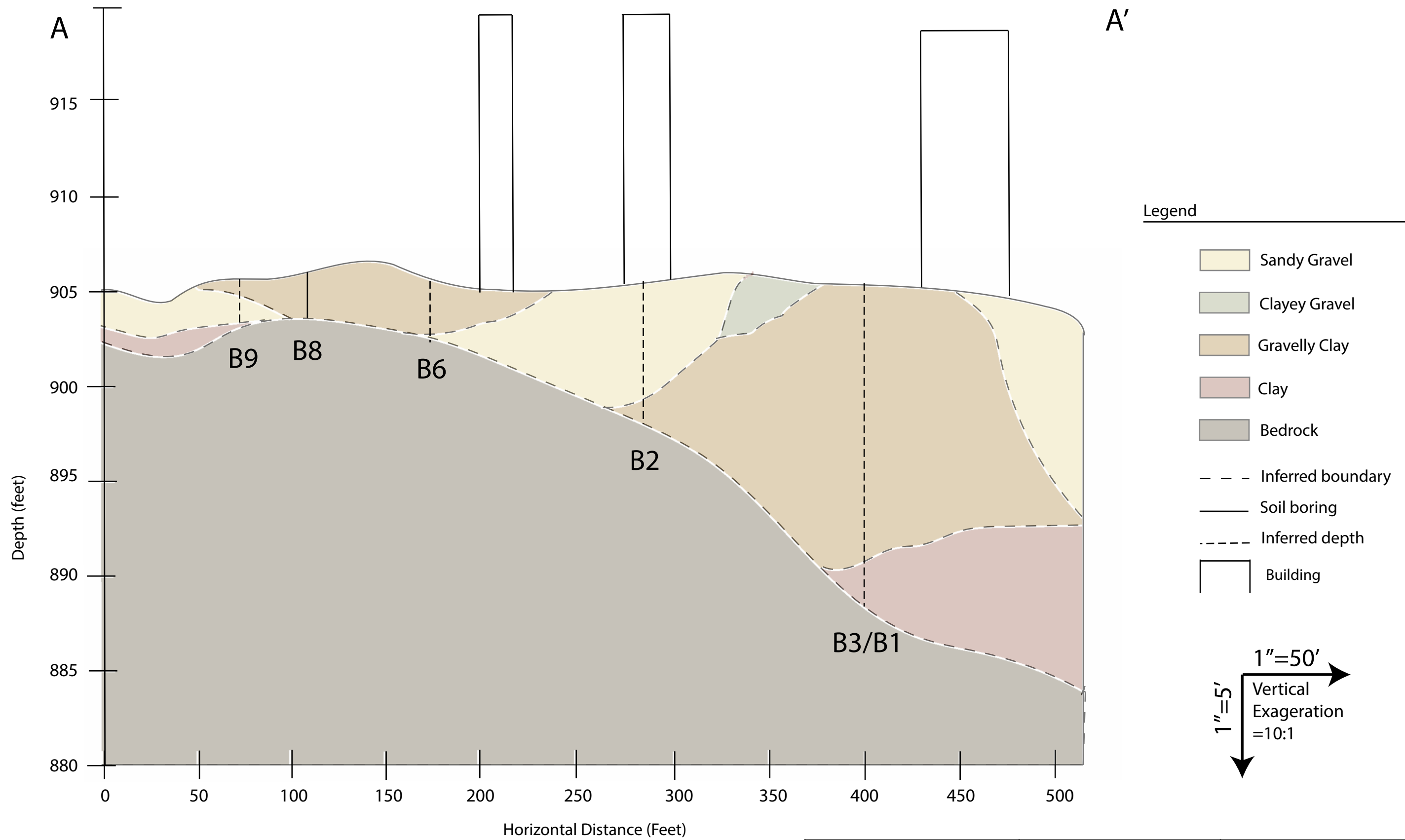
DO - 95

UN - 8800

Source: Woodward Clyde 1962

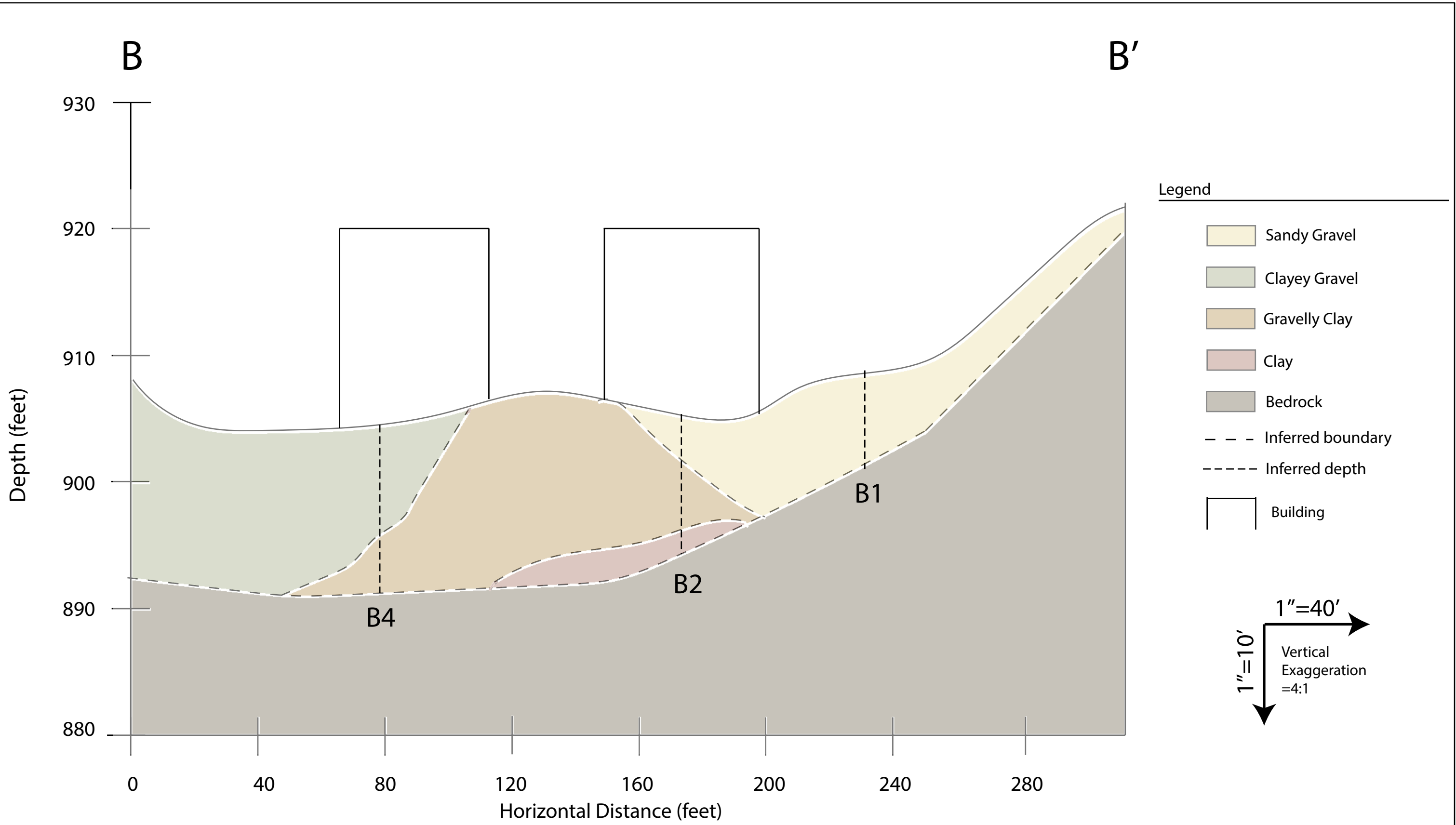
<p>SAFETY FIRST</p> 	<p>CLIENT: PERALTA COMMUNITY COLLEGE DISTR</p>	<p>WOODWARD CLYDE BORING LOGS</p>
	<p>PROJECT: MERRITT COLLEGE HORTICULTURE</p>	
<p>PROJECT NUMBER: 0035.005.0003</p>	<p>DATE: 4-20-20</p>	<p>FIGURE 5</p>

File: C:\Users\Resource\AppData\Local\Temp\ArcGISPro\Temp41484\98c3be0f-0ba3-4a89-91a1-1f9e2c678701\Untitled.aprx 6/29/2020 Created by: Initial Checked by: Initial Coordinate System: NAD_1983_StatePlane_California_III_FIPS_0403_Feet



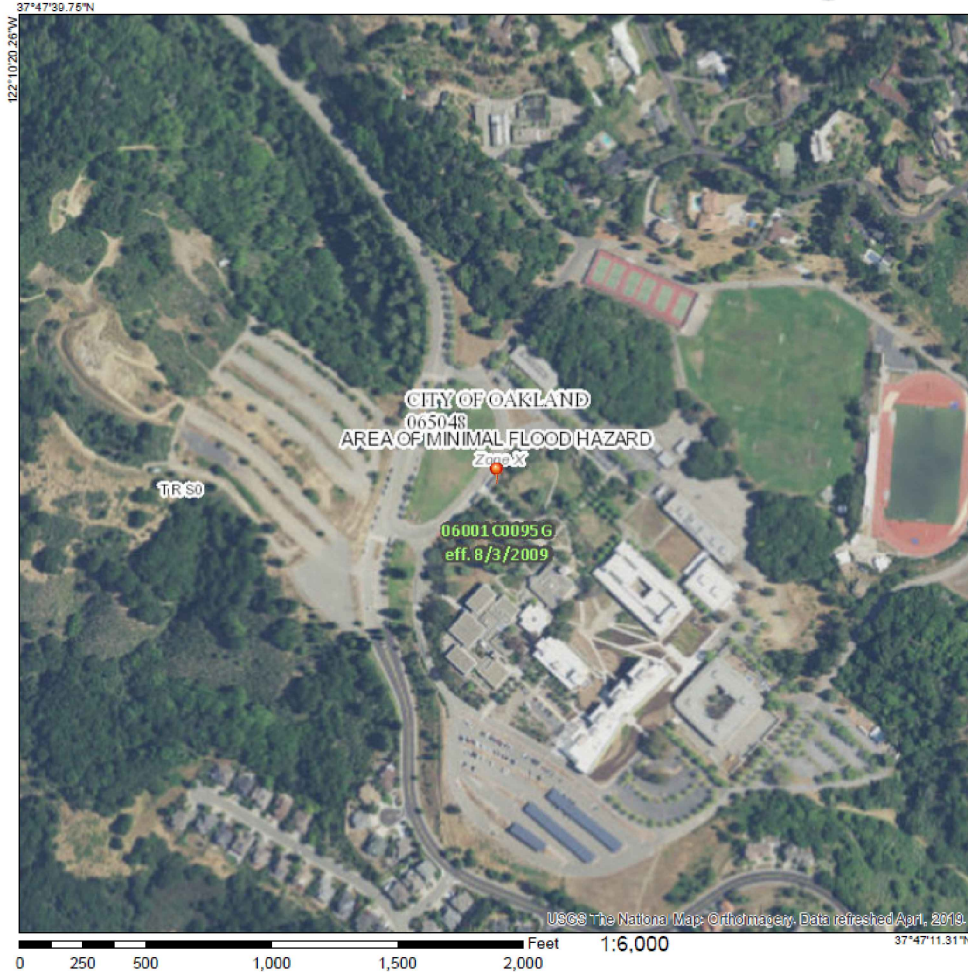
	CLIENT: PERALTA COMMUNITY COLLEGE DISTR	Cross Section A A'
	PROJECT: MERRITT COLLEGE HORTICULTURE	
	PROJECT NUMBER: 0034.011.001	Figure 6

File: C:\Users\Resource\AppData\Local\Temp\ArcGISProTemp\41484\98c3be0f-0ba3-4a89-91a1-1f9e2c678701\Untitled.aprx 6/29/2020 Created by: Initial Checked by: Initial Coordinate System: NAD 1983 StatePlane California III FIPS 0403 Feet



	CLIENT: PERALTA COMMUNITY COLLEGE DISTR	Cross Section B B'
	PROJECT: MERRITT COLLEGE HORTICULTURE	
	PROJECT NUMBER: 0034.011.0001	Figure 7

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	<ul style="list-style-type: none"> Without Base Flood Elevation (BFE) <i>Zone A, V, AE99</i> With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	<ul style="list-style-type: none"> 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone A</i> Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS	<ul style="list-style-type: none"> Area of Minimal Flood Hazard <i>Zone X</i> Effective LOMRs Area of Undetermined Flood Hazard <i>Zone D</i>
GENERAL STRUCTURES	<ul style="list-style-type: none"> Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
OTHER FEATURES	<ul style="list-style-type: none"> Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
MAP PANELS	<ul style="list-style-type: none"> Digital Data Available No Digital Data Available Unmapped

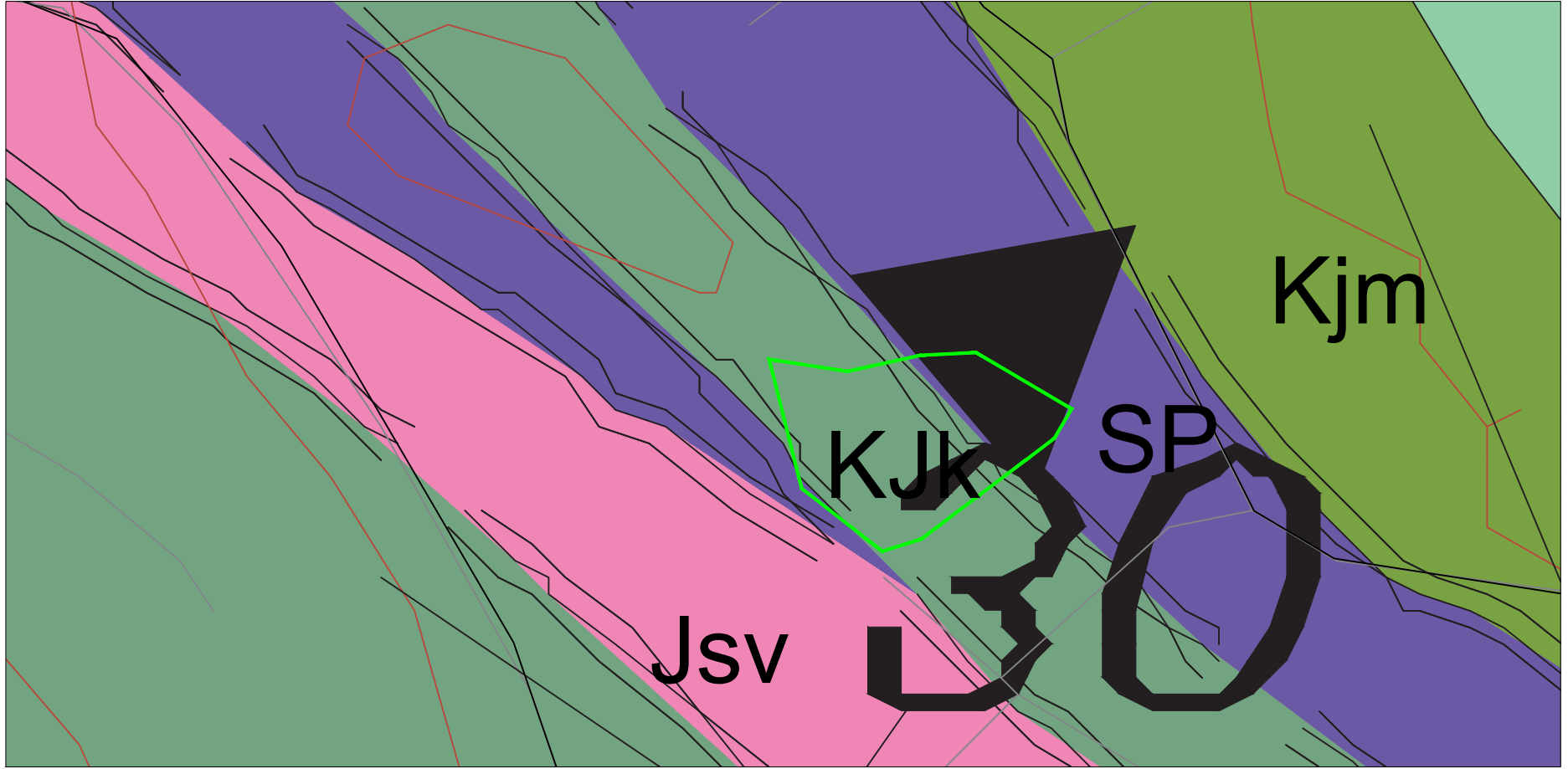
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/12/2019 at 12:20:01 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

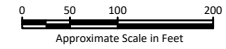
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

SAFETY FIRST	CLIENT: PERALTA COMMUNITY COLLEGE DIST	FEMA 100-Year Flood Zones
	PROJECT: MERRITT COLLEGE HORTICULTURE	
		PROJECT NUMBER: 0034.011.0001



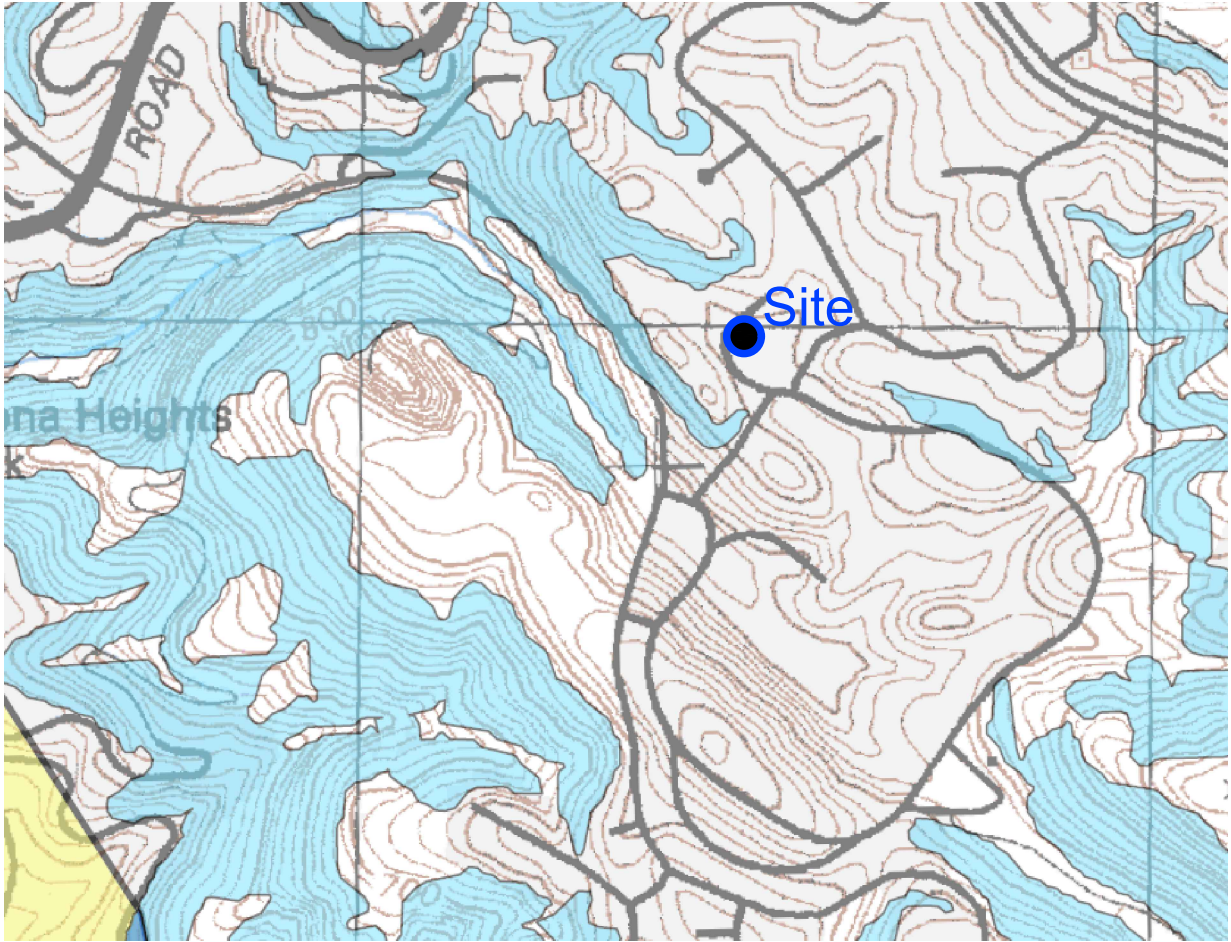
- Jsv - Keratophyre and quartz keratophyre
- SP - Serpentinite
- Kjk - Knoxville Formation - sandstone and shale
- Site Extent of Paved Area

Kjm - Joaquin Miller Formation



Source: Graymer 2000

SAFETY FIRST	CLIENT: PERALTA COMMUNITY COLLEGE DIST	GEOLOGICAL MAP
	PROJECT: MERRITT COLLEGE HORTICULTURE	
		PROJECT NUMBER: 0034.011.0001



EARTHQUAKE FAULT ZONES

Earthquake Fault Zones
Zone boundaries are determined by stratigraphic segments, the boundaries define the zone encompassing active faults that constitute a potential hazard to structures from surface faulting or fault creep such that avoidance as described in Public Resources Code Section 26231.5(a) would be required.

Active Fault Traces
Faults considered to have been active during Holocene time and to have potential for further rupture. Solid Line in Black or Red where Accurately Located, Long Dash in Black or Solid Line in Purple where Approximately Located, Short Dash in Black or Solid Line in Orange where Inferred, Dotted Line in Black or Solid Line in Blue where Contested. Query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by fault creep.

OVERLAPPING EARTHQUAKE FAULT AND SEISMIC HAZARD ZONES

Overlap of Earthquake Fault Zone and Liquefaction Zone
Areas that are covered by both Earthquake Fault Zone and Liquefaction Zone.

Overlap of Earthquake Fault Zone and Earthquake-Induced Landslide Zone
Areas that are covered by both Earthquake Fault Zone and Earthquake-Induced Landslide Zone.


Note: Mitigation methods differ for each zone - APAC only allows avoidance. Seismic Hazard Mapping Act allows mitigation by engineering/geotechnical design as well as avoidance.

SEISMIC HAZARD ZONES

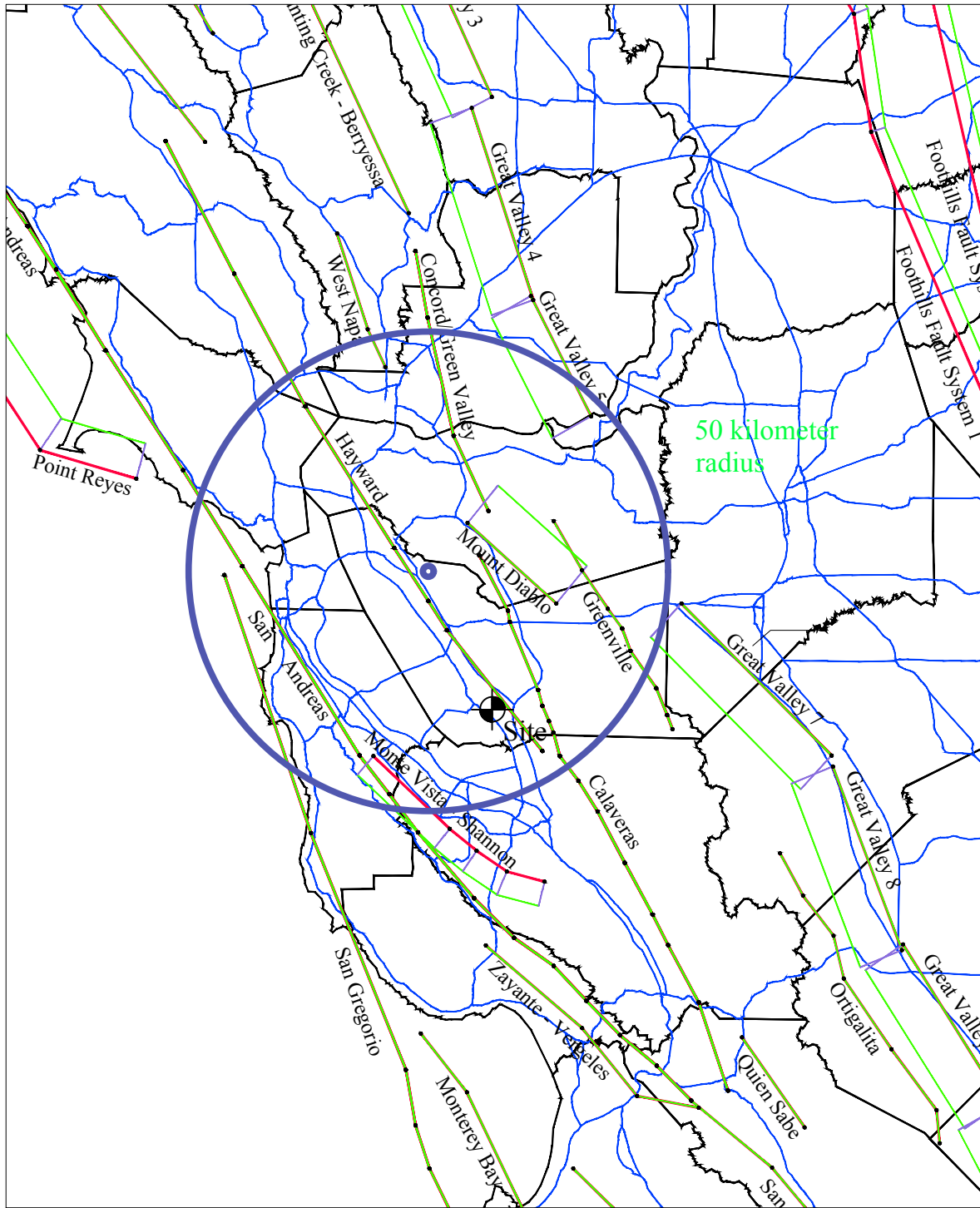
Liquefaction Zones
Areas where historical occurrences of liquefaction, or local geologic, geotechnical and ground water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 26931(c) would be required.

Earthquake-Induced Landslide Zones
Areas where previous occurrences of landslide movement, or local topographic, geologic, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 26931(c) would be required.

Source: California Geological Survey

<p>SAFETY FIRST</p>	<p>CLIENT: PERALTA COMMUNITY COLLEGE DISTR</p>	<p>SEISMIC HAZARD ZONE MAP</p>
	<p>PROJECT: HORTICULTURAL COMPLEX</p> <p>PROJECT NUMBER: 0035.011.0001</p> <p>DATE: 9-4-19</p>	

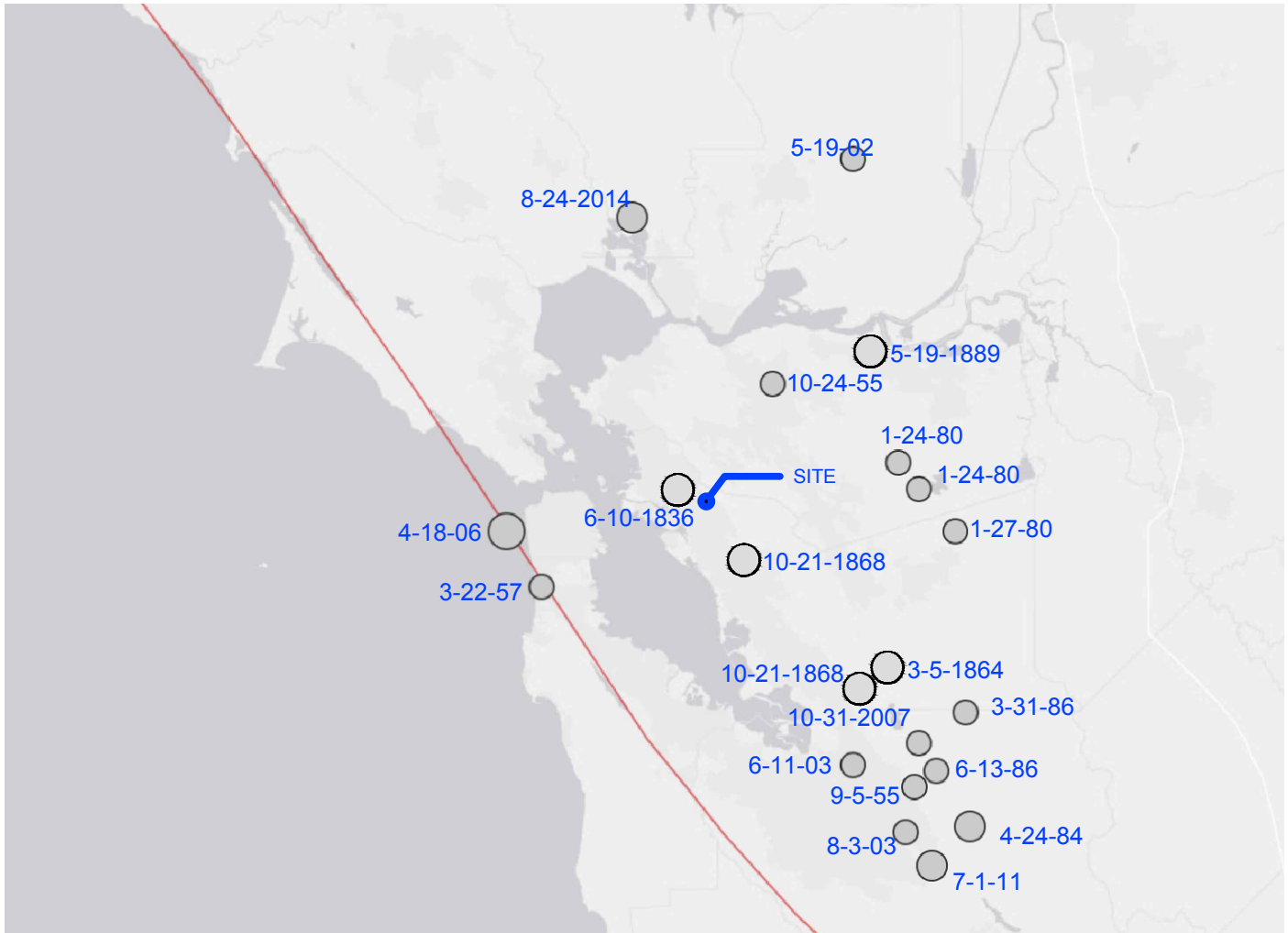
J:\CADD FILES\0034 Peralta\Merritt College\Figure 4 california fault map_recover.dwg Drawn by: _____; Checked by: _____



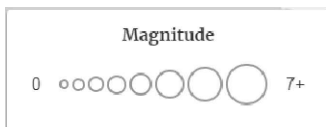
Source: Cao et al, 2003

- County Line
- Major Road
- Fault Bend
- Fault Trace
- Fault Plane Bottom Projected to Surface

SAFETY FIRST	CLIENT: Peralta Community College District	EARTHQUAKE FAULT MAP
	PROJECT: MERRITT HORTICULTURAL COMPLEX	
	PROJECT NUMBER: 0034.011.0001	FIGURE 11



Source:
<https://earthquake.usgs.gov/earthquakes/search/>



	CLIENT: Peralta Community College District	Historical Earthquakes
	PROJECT: Merritt Horticultural Complex	
	PROJECT NUMBER: 0034.011.0001	Figure 12